

Christopher Marc Mudry

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

4,208
citations

38
h-index

62
g-index

106
ext. papers

4,733
ext. citations

4.4
avg, IF

5.42
L-index

#	Paper	IF	Citations
95	Fractional quantum Hall states at zero magnetic field. <i>Physical Review Letters</i> , 2011 , 106, 236804	7.4	531
94	Electron fractionalization in two-dimensional graphenelike structures. <i>Physical Review Letters</i> , 2007 , 98, 186809	7.4	308
93	Masses in graphenelike two-dimensional electronic systems: Topological defects in order parameters and their fractional exchange statistics. <i>Physical Review B</i> , 2009 , 80,	3.3	139
92	Fractional topological liquids with time-reversal symmetry and their lattice realization. <i>Physical Review B</i> , 2011 , 84,	3.3	124
91	Two-dimensional conformal field theory for disordered systems at criticality. <i>Nuclear Physics B</i> , 1996 , 466, 383-443	2.8	112
90	Localization in Two Dimensions, Gaussian Field Theories, and Multifractality. <i>Physical Review Letters</i> , 1996 , 77, 4194-4197	7.4	107
89	Exact calculation of multifractal exponents of the critical wave function of Dirac fermions in a random magnetic field. <i>Physical Review B</i> , 1997 , 56, 10668-10677	3.3	94
88	Landauer conductance and twisted boundary conditions for Dirac fermions in two space dimensions. <i>Physical Review B</i> , 2007 , 75,	3.3	92
87	Z ₂ topological term, the global anomaly, and the two-dimensional symplectic symmetry class of Anderson localization. <i>Physical Review Letters</i> , 2007 , 99, 116601	7.4	91
86	Wire deconstructionism of two-dimensional topological phases. <i>Physical Review B</i> , 2014 , 90,	3.3	88
85	Delocalization in Coupled One-Dimensional Chains. <i>Physical Review Letters</i> , 1998 , 81, 862-865	7.4	88
84	From quantum mechanics to classical statistical physics: Generalized Rokhsar-Kivelson Hamiltonians and the Stochastic Matrix Form and Decomposition. <i>Annals of Physics</i> , 2005 , 318, 316-344	2.5	81
83	Coherent d-wave superconducting gap in underdoped La _{2-x} Sr _x CuO ₄ by angle-resolved photoemission spectroscopy. <i>Physical Review Letters</i> , 2008 , 101, 047002	7.4	78
82	Liouville Theory as a Model for Prelocalized States in Disordered Conductors. <i>Physical Review Letters</i> , 1996 , 77, 707-710	7.4	76
81	Separation of spin and charge quantum numbers in strongly correlated systems. <i>Physical Review B</i> , 1994 , 49, 5200-5219	3.3	73
80	Breakdown of the topological classification Z for gapped phases of noninteracting fermions by quartic interactions. <i>Physical Review B</i> , 2015 , 92,	3.3	72
79	Localization and delocalization in dirty superconducting wires. <i>Physical Review Letters</i> , 2000 , 85, 1064-7	7.4	70

78	Electron fractionalization for two-dimensional Dirac fermions. <i>Physical Review B</i> , 2008 , 77,	3-3	68
77	Two-dimensional spin-filtered chiral network model for the Z2 quantum spin-Hall effect. <i>Physical Review B</i> , 2007 , 76,	3-3	66
76	Measuring the quantum geometry of Bloch bands with current noise. <i>Physical Review B</i> , 2013 , 87,	3-3	55
75	Spin-glass state and long-range magnetic order in Pb(Fe _{1/2} Nb _{1/2})O ₃ seen via neutron scattering and muon spin rotation. <i>Physical Review B</i> , 2009 , 79,	3-3	55
74	Quantum Hall effect of massless dirac fermions in a vanishing magnetic field. <i>Physical Review Letters</i> , 2008 , 100, 246806	7-4	55
73	Deconfined fractional electric charges in graphene at high magnetic fields. <i>Physical Review B</i> , 2010 , 81,	3-3	53
72	Enhancing the stability of a fractional Chern insulator against competing phases. <i>Physical Review B</i> , 2012 , 86,	3-3	52
71	Irrational versus rational charge and statistics in two-dimensional quantum systems. <i>Physical Review Letters</i> , 2008 , 100, 110405	7-4	52
70	Electronic structure near the 1/8-anomaly in La-based cuprates. <i>New Journal of Physics</i> , 2008 , 10, 103016.9		51
69	Density of states for the \mathbb{F} lux state with bipartite real random hopping only: A weak disorder approach. <i>Physical Review B</i> , 2003 , 67,	3-3	51
68	Density of states in coupled chains with off-diagonal disorder. <i>Physical Review Letters</i> , 2000 , 84, 2913-6	7-4	51
67	Spin fluctuation induced Weyl semimetal state in the paramagnetic phase of EuCdAs. <i>Science Advances</i> , 2019 , 5, eaaw4718	14-3	48
66	Superconductivity on the surface of topological insulators and in two-dimensional noncentrosymmetric materials. <i>Physical Review B</i> , 2010 , 81,	3-3	48
65	When low- and high-energy electronic responses meet in cuprate superconductors. <i>Physical Review B</i> , 2007 , 75,	3-3	48
64	Topological many-body scar states in dimensions one, two, and three. <i>Physical Review Research</i> , 2019 , 1,	3-9	44
63	Anisotropic quasiparticle scattering rates in slightly underdoped to optimally doped high-temperature La _{2-x} Sr _x CuO ₄ superconductors. <i>Physical Review B</i> , 2008 , 78,	3-3	43
62	Time-reversal symmetric hierarchy of fractional incompressible liquids. <i>Physical Review B</i> , 2011 , 84,	3-3	42
61	Mechanism of spin and charge separation in one-dimensional quantum antiferromagnets. <i>Physical Review B</i> , 1994 , 50, 11409-11428	3-3	41

60	Noncommutative geometry for three-dimensional topological insulators. <i>Physical Review B</i> , 2012 , 86,	3-3	40
59	Fokker-Planck equations and density of states in disordered quantum wires. <i>Physical Review B</i> , 2001 , 63,	3-3	38
58	Random Dirac Fermions and Non-Hermitian Quantum Mechanics. <i>Physical Review Letters</i> , 1998 , 80, 4257-4260	7-4	38
57	Density of states in the non-Hermitian Lloyd model. <i>Physical Review B</i> , 1998 , 58, 13539-13543	3-3	38
56	Boundary criticality at the Anderson transition between a metal and a quantum spin Hall insulator in two dimensions. <i>Physical Review B</i> , 2008 , 78,	3-3	37
55	Random magnetic flux problem in a quantum wire. <i>Physical Review B</i> , 1999 , 59, 13221-13234	3-3	37
54	Unconventional Fermi surface spin textures in the Bi ₂ Pb _{1-x} /Ag(111) surface alloy. <i>Physical Review B</i> , 2009 , 79,	3-3	35
53	Instability of the disordered critical points of Dirac fermions. <i>Physical Review B</i> , 1996 , 53, R7638-R7641	3-3	33
52	Non-Abelian topological spin liquids from arrays of quantum wires or spin chains. <i>Physical Review B</i> , 2016 , 93,	3-3	32
51	Magnetic-field-induced spin excitations and renormalized spin gap of the underdoped La _{1.895} Sr _{0.105} CuO ₄ superconductor. <i>Physical Review Letters</i> , 2007 , 98, 077004	7-4	30
50	Nonuniversality in quantum wires with off-diagonal disorder: a geometric point of view. <i>Nuclear Physics B</i> , 2000 , 565, 653-663	2-8	30
49	Universality of delocalization in unconventional dirty superconducting wires with broken spin-rotation symmetry. <i>Physical Review B</i> , 2003 , 67,	3-3	29
48	Zero modes in the random hopping model. <i>Physical Review B</i> , 2002 , 66,	3-3	28
47	Crossover from the chiral to the standard universality classes in the conductance of a quantum wire with random hopping only. <i>Physical Review B</i> , 2000 , 62, 8249-8268	3-3	28
46	Spin-directed network model for the surface states of weak three-dimensional Z ₂ topological insulators. <i>Physical Review B</i> , 2014 , 89,	3-3	27
45	Fractional Chern insulators with strong interactions that far exceed band gaps. <i>Physical Review Letters</i> , 2014 , 112, 126806	7-4	27
44	Topological Hubbard model and its high-temperature quantum Hall effect. <i>Physical Review Letters</i> , 2012 , 108, 046806	7-4	26
43	Anderson localization and the topology of classifying spaces. <i>Physical Review B</i> , 2015 , 91,	3-3	25

42	Wire constructions of Abelian topological phases in three or more dimensions. <i>Physical Review B</i> , 2016 , 93,	3.3	23
41	Fractional (Chern and topological) insulators. <i>Physica Scripta</i> , 2015 , T164, 014005	2.6	22
40	The \mathbb{Z}_2 network model for the quantum spin Hall effect: two-dimensional Dirac fermions, topological quantum numbers and corner multifractality. <i>New Journal of Physics</i> , 2010 , 12, 065005	2.9	22
39	Counting Majorana zero modes in superconductors. <i>Physical Review B</i> , 2011 , 83,	3.3	22
38	Influence of higher d-wave gap harmonics on the dynamical magnetic susceptibility of high-temperature superconductors. <i>Physical Review B</i> , 2004 , 70,	3.3	22
37	Spectroscopic evidence for preformed Cooper pairs in the pseudogap phase of cuprates. <i>Europhysics Letters</i> , 2009 , 88, 27008	1.6	21
36	Does quasi-long-range order in the two-dimensional XY model really survive weak random phase fluctuations?. <i>Nuclear Physics B</i> , 1999 , 549, 613-656	2.8	21
35	Theory for inelastic neutron scattering in orthorhombic high-Tc superconductors. <i>Physical Review B</i> , 2006 , 73,	3.3	20
34	Weyl-type topological phase transitions in fractional quantum Hall like systems. <i>Physical Review B</i> , 2017 , 96,	3.3	18
33	Zero-temperature Kosterlitz-Thouless transition in a two-dimensional quantum system. <i>Annals of Physics</i> , 2007 , 322, 903-934	2.5	18
32	Density of states for dirty d-wave superconductors: A unified and dual approach for different types of disorder. <i>Physical Review B</i> , 2001 , 63,	3.3	18
31	Quantum three-coloring dimer model and the disruptive effect of quantum glassiness on its line of critical points. <i>Physical Review B</i> , 2005 , 72,	3.3	17
30	Masses and Majorana fermions in graphene. <i>Physica Scripta</i> , 2012 , T146, 014013	2.6	16
29	Topological qubits in graphenelike systems. <i>Physical Review B</i> , 2010 , 82,	3.3	15
28	Quantum phase transitions beyond Landau-Ginzburg theory in one-dimensional space revisited. <i>Physical Review B</i> , 2019 , 99,	3.3	13
27	Testing of asymptomatic individuals for fast feedback-control of COVID-19 pandemics. <i>Physical Biology</i> , 2020 ,	3	13
26	Symmetry-protected entangling boundary zero modes in crystalline topological insulators. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P09014	1.9	12
25	Elementary formula for the Hall conductivity of interacting systems. <i>Physical Review B</i> , 2012 , 86,	3.3	12

24	Magnetic translation algebra with or without magnetic field in the continuum or on arbitrary Bravais lattices in any dimension. <i>Physical Review B</i> , 2012 , 86,	3-3	11
23	Global phase diagram of two-dimensional Dirac fermions in random potentials. <i>Physical Review B</i> , 2012 , 85,	3-3	10
22	High-temperature criticality in strongly constrained quantum systems. <i>Physical Review B</i> , 2006 , 73,	3-3	10
21	Ground-state degeneracy of non-Abelian topological phases from coupled wires. <i>Physical Review B</i> , 2019 , 99,	3-3	9
20	Model of chiral spin liquids with Abelian and non-Abelian topological phases. <i>Physical Review B</i> , 2017 , 96,	3-3	9
19	Accessing topological order in fractionalized liquids with gapped edges. <i>Physical Review B</i> , 2014 , 90,	3-3	9
18	Using Uniaxial Stress to Probe the Relationship between Competing Superconducting States in a Cuprate with Spin-stripe Order. <i>Physical Review Letters</i> , 2020 , 125, 097005	7-4	9
17	Giant Pressure Dependence and Dimensionality Switching in a Metal-Organic Quantum Antiferromagnet. <i>Physical Review Letters</i> , 2018 , 121, 117201	7-4	9
16	Hierarchical Majoranas in a programmable nanowire network. <i>Physical Review B</i> , 2019 , 99,	3-3	8
15	Transport properties and density of states of quantum wires with off-diagonal disorder. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001 , 9, 333-339	3	8
14	Coupled spin-12 ladders as microscopic models for non-Abelian chiral spin liquids. <i>Physical Review B</i> , 2017 , 95,	3-3	7
13	Crossover of conductance and local density of states in a single-channel disordered quantum wire. <i>Physical Review B</i> , 2004 , 70,	3-3	7
12	Multiferroic Magnetic Spirals Induced by Random Magnetic Exchanges. <i>Physical Review X</i> , 2018 , 8,	9-1	6
11	Universal scaling relations in strongly anisotropic materials. <i>Physical Review Letters</i> , 2006 , 96, 027215	7-4	6
10	Topological BF theory of the quantum hydrodynamics of incompressible polar fluids. <i>Physical Review B</i> , 2014 , 90,	3-3	5
9	High-gradient operators in perturbed Wess-Zumino-Witten field theories in two dimensions. <i>Nuclear Physics B</i> , 2010 , 839, 341-376	2-8	5
8	Scaling relations in the quasi-two-dimensional Heisenberg antiferromagnet. <i>Physical Review B</i> , 2006 , 74,	3-3	5
7	Screening in (d+s)-wave superconductors: Application to Raman scattering. <i>Physical Review B</i> , 2007 , 75,	3-3	5

6	Ground states of infinite-range spin-(1/2 quantum Heisenberg antiferromagnets. <i>Physical Review B</i> , 1989 , 40, 11177-11184	3.3	5
5	Spiral order from orientationally correlated random bonds in classical XY models. <i>Physical Review Research</i> , 2020 , 2,	3.9	4
4	Conductance fluctuations in disordered superconductors with broken time-reversal symmetry near two dimensions. <i>Nuclear Physics B</i> , 2007 , 780, 105-142	2.8	3
3	Model of spin liquids with and without time-reversal symmetry. <i>Physical Review B</i> , 2019 , 99,	3.3	1
2	The superspin approach to a disordered quantum wire in the chiral-unitary symmetry class with an arbitrary number of channels. <i>Nuclear Physics B</i> , 2009 , 822, 424-466	2.8	1
1	Density of States of Disordered Dirac Particles: Infinitely Many Operators with Negative Scaling Dimensions and Freezing Transitions. <i>Journal of the Physical Society of Japan</i> , 2003 , 72, 219-220	1.5	